ISR Integration

LX System Engineering, Integration and Test (SEIT)

U-2 Flight Test

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SIWG 10

Overview

- Scheduling
- Priorities
- FY04 Funding Constraints
- Site 2 Ground Station

U-2 Flight Test

- Scheduling
  - LXE-1 (Lt Joe Quillin) Responsible for U-2 Flight Test Schedule
    - Weekly Scheduling Meeting at Palmdale to Review Near Term (5 Week Look-ahead) Schedule – Includes Associate Contractors
    - Long Term Schedule Reviewed at Quarterly Flight Test Working Group
    - Schedule Changes Coordinated With Gov't PM
    - If Resolution Can't Be Reached at AO Level, Issue Pushed up to U-2 PM and DSM for Resolution
    - Schedule Distributed to ISR Community Weekly
- Priorities
  - Safety of Flight
  - Operational Needs – Based Upon ACC Input
  - Developmental Programs
  - Demonstration Programs
  - Other Programs (Global Hawk, Navy, Etc.)

U-2 Flight Test

- Flight Test Operation Reduction
  - Reassigned 14 LM Aero Flight Test Personnel
    - Reduced Support From 2.5 Aircraft to 1.5 Aircraft
    - No Overtime/weekend Work
- How Are We Surviving:
  - Surgically Managing a Pool of $1M for Selective Overtime
  - Rates Have Improved at LMA As We Got Into This FY
  - No RAS-1R Cal Flights Being Performed on PDM Aircraft
    - Lack of Sensor
    - Will Have to Make This up in FY 05
  - Prioritizing Closely
- By Closely Managing Flight Test We Are Keeping up With Critical Requirements

U-2 Flight Test – Ground Station

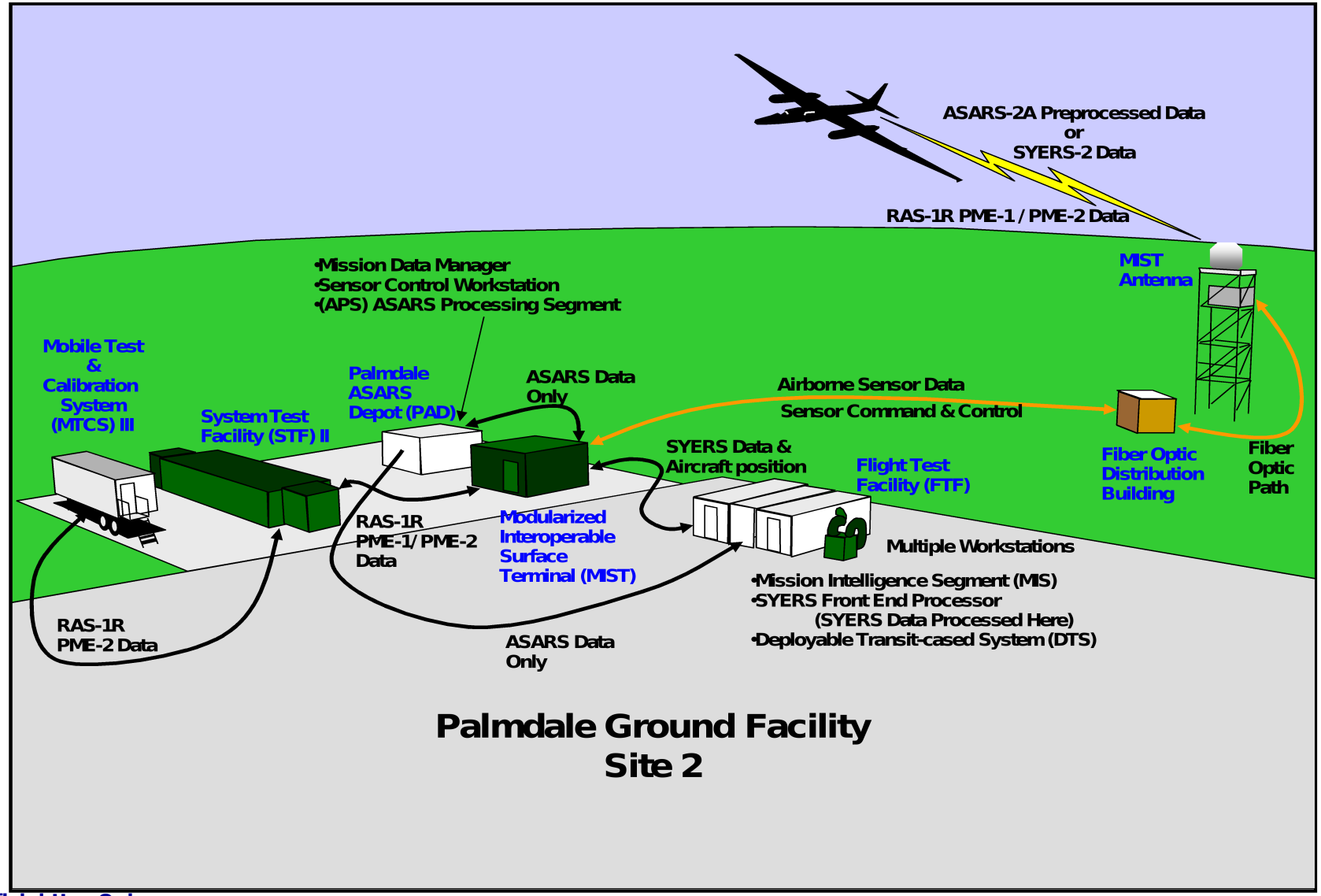
- **"Best Kept Secret in the ISR Community"**
- **Primary Mission – Support U-2 Aircraft/Sensor Developmental Testing**
  - Ground Station Capability Developed to Support End-to End (E2E) Testing of Airborne Sensor Mods
  - Capability Evolved Through Sensor Program Upgrades
- **Alternate Mission - Support Other Air Force Weapon System Testing, Both Airborne and Ground, as well as Other Services**
  - Common Imagery Processor (CIP) Developmental Testing
  - U-2 OT&E in Conjunction With 9RW
  - Global Hawk
  - Navy – Battle Group Passive Horizon Extension System (BGPHES)
  - Navy – Common Data Link System (CDLS)
  - ARMY – Tactical Exploitation System (TES)
- **Use of Facility Should Be Considered for DT of All DCGS Upgrades**

Test Resources

- Links
  - 2 DLIP MISTs – Data Link Improvement Program (ATM upgrade) Modular Interoperable Surface Terminal
- IMINT
  - Palmdale ASARS Depot (PAD)
    - SCWS – Sensor control work station
    - APS – ASARS Processing Segment
    - Mission Data Manager
  - Flight Test Facility (FTF)
    - SFEP – SYERS Front End Processor
    - MIS – Mission Intelligence Segment
    - DTS – Deployable Transit System
    - CIP – Common Imagery Processor
- RFINT
  - STF-II – System Test Facility (DGIF- Deployable Ground Intercept Facility)
  - MTCS – Mobile Test & Calibration System (GCP - Ground Control Processor)
- ARMY Tactical Exploitation System (TES) Facility

Test Resources

Test Resources



Ground Site Modernization

- **Current Modernization Activities**
  - Common Imagery Processor (CIP)
  - Common Imagery Exploitation System (CIES)
  - RFINT Workstation Upgrade
  - SCIF Accreditation
  - Defense Research Engineering Network
    - Connectivity Between Site 2 and DGS-X, as well as Other DREN Subscribers
- **Future Modernization Activities**
  - Develop Network Connectivity Between Systems
    - Current Systems Are Connected, Not Networked
    - Supports 10.2 and Future DCGS Spiral Upgrades
  - “Devan” Site 2 Systems
    - Migrate Towards a Desktop Environment
    - Keeps Pace With Operational Facility Plans

Ground Site – System Integration

- **Currently, Efforts Are Worked at the System Level, Not on a "System of Systems" Level**
  - Multiple Gov't PM's Directing Multiple Associate Contractors
  - Current System Works Well, Great Cooperation Between All Associate Contractors
- **LXE-1 Developing Strategy for Improved System Integration of Ground Site Activities**
  - Required to Support Security Accreditation of SCIF and Defense Research Engineering Network (DREN) Activities
  - Any Changes to Processes/Procedures Associated With System Integration (Config Management, Security Accreditation, Etc.) Must:
    - Maintain Current Flexibility Associated With Developmental System Changes
    - Maintain Current Associate Contractor Arrangement
  - Plan to Leverage off Existing Process/procedures Used by "Non-traditional" Ground Sites (Site 6, Site 7)